Contents Volume 63, 1993

Timing of Proterozoic deformation and magmatism in a tectonically reworked orogen, Rayner Complex, Colbeck Archipelago, east Antarctica
R.W. White and G.L. Clarke 1
Metamorphic alteration of a Precambrian (2.2 Ga) paleosol from South Africa revealed by backscattered electron imaging
G.J. Retallack and D.H. Krinsley 27
Diapirism, bulk homogeneous shortening and transcurrent shearing in the Archaean Dharwar craton: the Holenarsipur area, southern India
H. Bouhallier, P. Choukroune and M. Ballèvre 43
Magnetic susceptibility, magnetic mineralogy and magnetic fabrics in a late Archean granitoid–gneiss belt
K. Benn, P. Rochette, J.L. Bouchez and K. Hattori 59
Petrology and diagenetic evolution of Neoproterozoic ooids (Libby Formation, western Montana, U.S.A.)
D.L. Kidder and S. Hall 83
Lead isotopic evidence for the origin of Paleo- and Mesoproterozoic rocks of the Colorado Province, U.S.A.
J.N. Aleinikoff, J.C. Reed, Jr. and J.L. Wooden 97
U–Pb geochronological constraints on the tectonic evolution of the Grenville Province, western Labrador
J.N. Connelly and L.M. Heaman 123
The Proterozoic Sinclair Sequence in southern Namibia: intracratonic rift or active continental margin setting?
B.G. Hoal 143
Palaeoproterozoic basement province in the Caledonian fold belt of North-East Greenland
F. Kalsbeek, A.P. Nutman and P.N. Taylor 163
SHRIMP U–Pb zircon geochronology of Archaean granitoids from the Contendas-Mirante area of the São Francisco Craton, Bahia, Brazil
A.P. Nutman and U.G. Cordani 179
U–Pb zircon ages from the Hook granite massif and Mwembeshi dislocation: constraints on Pan-African deformation, plutonism, and transcurrent shearing in central Zambia
R.E. Hanson, M.S. Wardlaw, T.J. Wilson and G. Mwale 189
U–Pb geochronology of the western Cape Smith Belt, Canada: new insights on the age of initial rifting and arc magmatism
N. Machado, J. David, D.J. Scott, D. Lamothe, S. Philippe and C. Gariépy 211
The sulfur isotopic record of Precambrian sulfates: new data and a critical evaluation of the existing record
H. Strauss 225
The Nama foreland basin: sedimentation, major unconformity bounded sequences and multisided active margin advance
P.G. Gresse and G.J.B. Germs 247
Tectonothermal history recorded in mafic dykes and enclaves of gneissic basement in the Schirmacher Hills, East Antarctica
S. Sengupta 273
Petrological and whole rock isotopic characteristics of tectonically juxtaposed Archaean gneisses in the Okak area of the Nain Province, Labrador: relevance for terrane models
L. Schiøtte, B.T. Hansen, S.B. Shirey and D. Bridgwater 293
Paleoproterozoic tectonic assembly of Northeast Laurentia through multiple indentations
M.J. Van Kranendonk, M.R. St-Onge and J.R. Henderson 325